INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/04101

			
A. CLASS	SIFICATION OF SUBJECT MATTER C1 ⁷ H05K13/02		
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ H05K13/02			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Jitsuyo Shinan Koho 1926—1996 Jitsuyo Shinan Toroku Koho 1996—2003			
Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X		Electric Industrial	1-4,8-21
A .	Co., Ltd.),		,
·	03 August, 2001 (03.08.01),		
	(Family: none)		•
Х	WO 99/62314 A2 (SIMENS AG.),	·	1-7,20,21
	02 December, 1999 (02.12.99), & JP 2002-517104 A	,	
		·	
Х	JP 8-139500 A (TDK Corp.), 31 May, 1996 (31.05.96),		1,2,13-21
	(Family: none)		
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Furth	er documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "T" "A" document defining the general state of the art which is not		"T" later document published after the inte priority date and not in conflict with the	mational filing date or e application but cited to
considered to be of particular relevance "E" earlier document but published on or after the international filing		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
date			
cited to establish the publication date of another citation or other			
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other			
than the priority date claimed			
Date of the actual completion of the international search 20 May, 2003 (20.05.03)		Date of mailing of the international search report 03 June, 2003 (03.06.03),	
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riume and matting address of the said		Authorized officer	
Japanese Patent Office			
Facsimile No.		Telephone No.	